



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090334

Mode: Highway

Status: Submitted

(Newton-Conover Loop (Western Section))

From/Cross Street: NC 10 Southwest of Newton

Specific Improvement Type: 6 - Widen Existing Roadway and Construct Part on New Location

To: Proposed Newton-Conover North Loop

Project Category: Division Needs

Length: 6.18

TIP#: U-2529

Fully Funded in Draft STIP? No

Cost to NCDOT: \$98,035,000

Description:

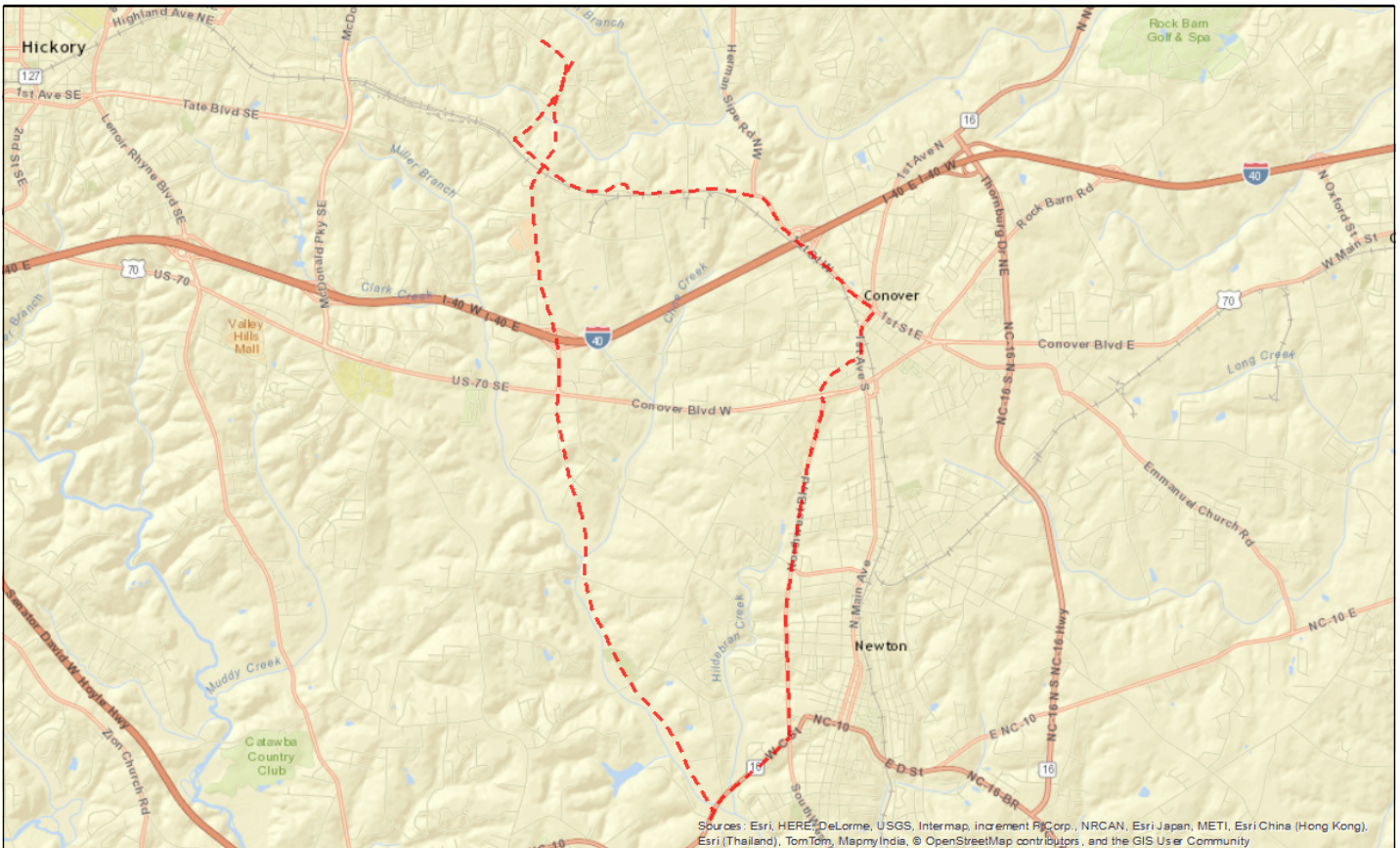
NC 10 Southwest of Newton to Proposed Newton-Conover North Loop. Widen to Multi-Lanes USING Existing SR 1476 (Fairgrove Church Road) and Construct Remaining Multi-Lane Connector on New Location.

Division(s): Division 12

County(s): CATAWBA

MPOS(s)/RPO(s): Greater Hickory MPO

Project Location



Statewide Mobility Total Score: 0

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-------------------------------|
| Totals: Weight: 0% Weighted Score: 0 | N/A | N/A |

Regional Impact Total Score: 0

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-------------------------------|
| Totals: Weight: 0% Weighted Score: 0 | Percent: 15% Points: 0 | Percent: 15% Points: 0 |

Division Needs Total Score: 29.63

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-------------------------------|
| Congestion (V/C) (20%) 39.18 Safety (10%) 36.75 [Travel Time] Benefit/Cost (20%) 3.11 Totals: Weight: 50% Weighted Score: 12.13 | Percent: 25% Points: 0 | Percent: 25% Points: 70 |

Project Data ***Existing Conditions**

| | |
|---|--------------------------|
| Existing Cross-Section: | |
| Speed Limit: | 40 |
| Length (miles): | 8.1 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Other Principal Arterial |
| Terrain Type: | Rolling |
| Lane Width: | 11 |
| Paved Shoulder Width: | 0 |
| Roadway has Curb & Gutter? | Yes |
| Volume (AADT): | 13110.43 |
| Capacity: | 23180.63 |
| Volume/Capacity Ratio: | 0.57 |
| % Autos: | 94% |
| % Trucks: | 6% |
| Truck Volume: | 779.32 |
| Crash Density: | 36.3 |
| Crash Severity: | 50.76 |
| Critical Crash Rate: | 23.21 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 2 |
| Non-Interstate STRAHNET Route? | No |
| Average Commuting Time: | 18 |
| Existing Median Type (for Cost Estimation): | Undivided |
| Pavement Condition Rating: | 84 |
| Actual Congested Speed: | 16.41 |
| Travel Time Index: | 1.1 |

Project Benefits

| | |
|--|---|
| Project Cross-Section: | 4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders |
| Speed Limit: | 45 |
| Length (miles): | 6.18 |
| Facility Type: | Arterial |
| Access Control: | Partial |
| Functional Classification: | Minor Arterial |
| Terrain Type: | Rolling |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 4 |
| Travel Time Savings for 30 Years (Total): | 13503891.46 |
| Travel Time Savings for 30 Years (Autos): | 12701177.61 |
| Travel Time Savings for 30 Years (Trucks): | 802713.85 |
| Long-Term Employment: | |
| % Change in Economy: | |
| Provides Direct Connection to Transportation Terminal? | No |
| Does project upgrade how the roadway functions? | No |
| In CTP or LRTP? | No |
| CTP/LRTP Name: | |
| CTP/LRTP Completion Year: | |
| Submitted by: | Division 12 |

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

| Division | Percent | Regional Impact | Division Needs |
|------------------------------|----------------|------------------------|-----------------------|
| Division 12 | 100% | 0 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 0 | 0 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|-----------------------------|----------------|------------------------|-----------------------|
| Greater Hickory MPO | 100% | 0 | 70 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 0 | 70 |

Project Cost and Source

| | | |
|------------------------|---------------------|----------------------|
| Construction Cost: | \$49,362,000 | TIP Unit |
| Right-of-Way Cost: | \$43,458,000 | Cost Estimation Tool |
| Utilities Cost: | \$5,215,000 | Cost Estimation Tool |
| Total Project Cost: | \$98,035,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$98,035,000 | |